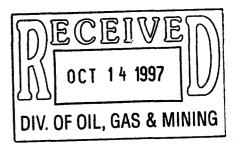
Petroglyph Operating Co., Inc. P.O. Box 1839

Hutchinson, KS 67504-1839

October 3, 1997

Utah Division of Oil, Gas, & Mining 1594 West North Temple Box 145801 Salt Lake City, UT 84114-5801



RE: APPLICATION FOR PERMIT TO DRILL UTE TRIBAL #19-14 SE/SW, SEC. 19, T5S, R3W **DUCHESNE COUNTY, UTAH** LEASE NO. BIA 14-20-H62-3514 **UTE TRIBAL LANDS**

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter P.O. Box 1910 Vernal, UT 84078 Phone # (801) 789-4120 Fax # (801) 789-1420

Sincerely

Agent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

SUBMIT IN TRIPLICATE. **UNITED STATES**

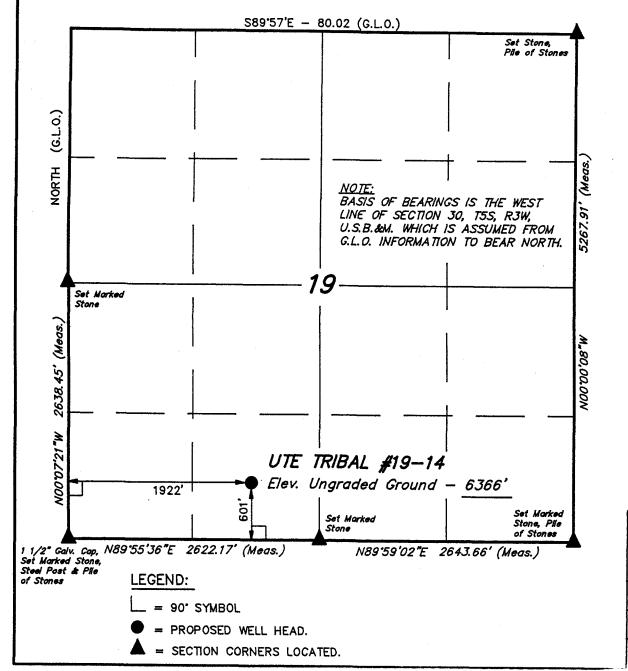
(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL, NO. BUREAU OF LAND MANAGEMENT 14-20-H62-3514 APPLICATION FOR PERMIT TO DRILL OR DEEPEN 6. IF INDIAN, ALLOTTER OR TRIBE NAME 18. TYPE OF WORK UTE INDIAN TRIBE DRILL X 7. UNIT AGREEMENT NAME **DEEPEN** b. TYPE OF WELL OIL WELL 2. NAME OF OPERATOR WELL SINGLE ZONE MULTIPLE OTHER 8. FARM OR LEASE NAME, WELL NO. UTE TRIBAL PETROGLYPH OPERATING COMPANY, INC. 9. API WELL NO. #19-14 P.O. BOX 607, ROOSEVELT, UTAH 84066 4. LOCATION OF WELL (Report location clearly and in accordance with any State At surface 10.2 10. FIELD AND POOL, OR WILDCAT ANTELOPE CREEK 601' FSL & 1922' 143 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA FWI. SE/SW At proposed prod. zone SEC. 19, T5S, R3W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 12. COUNTY OR PARISH | 13. STATE 21.8 MILES SOUTHWEST OF MYTON, UTAH DUCHESNE UTAH 15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL Q (Also to nearest drig, unit line, if any) ጸበ 640 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS ROTARY 5938.1' 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 6360.1' GRADED GROUND OCTOBER 1997 23 PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 12 1/4 8 5/8 24.0# יס25 135 sx class "G" + 2% CaCl2 7/8 5 172 15.5# 5938.1' + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG+) + CONFIDENTIAL LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS 5% EXCESS). PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER BOND #4556. pc: Utah Division of Oil, Gas, and Mining Bureau of Indian Affairs, Fort Duchesne, Utah Ute Tribe, Fort Duchesne, Utah DIV. OF OIL, GAS & MINING IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24. 10-8-97 SIGNED TITLE AGENT FOR PETROGLYPH (This space for Federal or State office use) 43-013-31966 APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

*See Instructions On Reverse Side Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

T5S, R3W, U.S.B.&M.

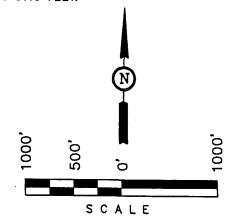


PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #19-14, located as shown in the SE 1/4 SW 1/4 of Section 19, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 30, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6116 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY WE WE INDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND ACCRECATE TO THE REST OF MY KNOW FOR AND RELIEF BEST OF MY KNOWLEDGE AND BELIEF

UINTAH ENGINEERING 85 SOUTH 200 EAST VERNALILUTAH 84078 (801) 789-1017

SCALE DATE SURVEYED: DATE DRAWN: 1'' = 1000'6-19-97 6-30-97 PARTY REFERENCES D.A. K.H. C.B.T. G.L.O. PLAT WEATHER

WARM

PETROGLYPH OPERATING CO., INC.

EIGHT POINT PLAN

UTE TRIBAL #19-14 SE/SW, SEC. 19, T5S R3W DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2764.1	3606
"X" Marker	4330.1	2040
Douglas Creek	4472.1	1898
"B" Limestone	4850.1	1520
B/Castle Peak Limestone	5409.1	961
Basal Carbonate Limestone	5826.1	542
Total Depth	5938.1	432
A		

Anticipated BHP 2000 psi

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

A			
<u>Substance</u>	Formation	Depth	Subsea
Oil/Gas	Douglas Creek	4472.1	
Oil/Gas			1898
	B/Castle Peak	5409.1	961
Other mineral zones	NT/A		

3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

4. CASING PROGRAM:

TTOT = 0						MINIMUM	<u>SAFETY F</u>	<u>ACTOR</u>
HOLE SIZ	E INTERVAL I	LENGTH S	SIZE W	EIGHT (GRADE	COLLAPSE	BURST TI	ENSILE
12 1/4	0' - 250'	250'	8 5/8	24.0 #		1370 PSI		
7 7/8	0' - 5938.1'	5938.1'	5 1/2	15.5 #	M-50	3650 PSI		•

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL # , SEC. , T5S R3W DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL	MUD TYPE
0' - 250'	Air
250' - 4000'	Air/Mist & Aerated Water
4000' - TD	Air/3% KCL water or KCL substitute
TD	Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.

B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. **EVALUATION PROGRAM**:

Logs: Mud Logging
Compensated Density-Compensated Neutron Log
Dual Laterolog - Micro-SFL
Numar (Magnetic Resonance Imaging Log)

T.D. to base of surface csg.
T.D. to base of surface csg.

T.D. to base of surface csg.

Geologists discretion

Cores: None Programmed DST: None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL # . SEC. , T5S R3W DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in associaton with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in associaton with the drilling of this well.

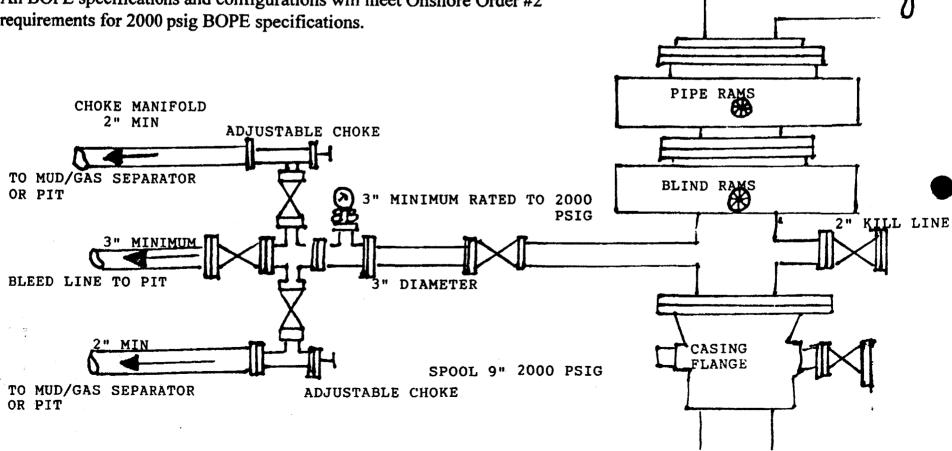
(Attachment: BOP Schematic Diagram)

2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED. CASING FLANGE IS 9" 2000 PSIG RATED. **BOPE 9" 2000 PSIG**

TESTING PROCEDURE:

- 1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
- 2. Blind & Pipe rams will be tested to rated working pressure, 2000 psig
- 3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
- 4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
- 5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



ROTATIN

FLOW LINE

HEAD

CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM OF THE APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.

Well Name & Number: <u>Ute Tribal #19-14</u> Lease Number: <u>BIA 14-20-H62-3514</u>

Location: 601' FSL & 1922' FWL SE/SW, Sec. 19, T5S R3W

U.S.B.&M., Duchesne County, Utah

Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice

- at least twenty-four (24) hours prior to spudding the

well.

Casing String and

Cementing

- twenty-four (24) hours prior to running casing and

cementing all casing strings.

BOP and related

Equipment Tests

- twenty-four (24) hours prior to running casing and

tests.

First Production

Notice

- within five (5) business days after new well begins

or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

THIRTEEN POINT SURFACE USE PROGRAM

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 21.8 miles southwest of Myton, Utah See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 300 feet in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells None
- B. Abandoned wells None
- C. Temporarily abandoned wells None.
- D. Disposal wells None.
- E. Drilling wells None.
- F. Producing wells 8*
- G. Shut in wells 1*
- H. Injection wells 1*

 (*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines None

- 4. Gas gathering lines-None
- 5. Injection lines None
- 6. Disposal lines None
- 7. Surface pits None

B. OFF WELL PAD

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 2425' from proposed location to a point in the SE/SW of Section 19, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
- 3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
- 4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Northeast side of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

To protect the environment:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State,

Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

__To protect the environment (without a chemical analysis) reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

_Storage tanks will be used if drill sites are located on tribal

irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

8. ANCILLARY FACILITIES

A. No airstrips or camps are planned for this well.

9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the Southwest side of the location.

The flare pit will be located downwind of the prevailing wind direction on the Southwest side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the North end.

Access to the well pad will be from the Southeast.
V/A Diversion ditch(es) shall be constructed on the
side of the location (above/below) the cut slope, draining to
he
V/A Soil compacted earthen berm(s) shall be placed on the
ride(s) of the location between the
V/A The drainage(s) shall be diverted around the sides of the well pad location
V/A The reserve pit and/or pad locations shall be constructed long and
narrow for topographic reasons
X Corners No. 2, 4, 6, & 8 will be rounded off to minimize excavation

FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to

satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

11. SURFACE OWNERSHIP

Access road:

Ute Indian Tribe

Location:

Ute Indian Tribe

12. <u>OTHER INFORMATION</u>

A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA,

or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator,

the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additi	ional Surface Stipulations	
N/A	_No construction or drilling activities shall	be conducted between
	andbecaus	
N/A	_No surface occupancy will be allowed with	hin 1,000 feet of any sage
	grouse strutting ground.	
N/A	_No construction or exploration activities a	re permitted within 1.5
	mile radius of sage grouse strutting ground	
N/A	_There shall be no surface disturbance with	
	(includes stock tanks, springs, and guzzler	
N/A	_No cottonwood trees will be removed or d	
	Pond will be constructed according to BLM	
	approximatelyft	
	on onsite.	
LESSE	EE'S OR OPERATOR'S REPRESENTATIV	VE AND CERTIFICATION
	<u>PERMITTING</u>	OPERATIONS
	Ed Trotter	Vince Guinn
	1620 West 750 North	P.O. Box 607
	Vernal UT 84078	Roosevelt, UT 84066
	Telephone # (801)789-4120	(801) 722-2531
	Fax # (801) 789-1420	Fax # (801) 722-9145
	, ,	(, , , , , , , , , , , , , , , , , , ,

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

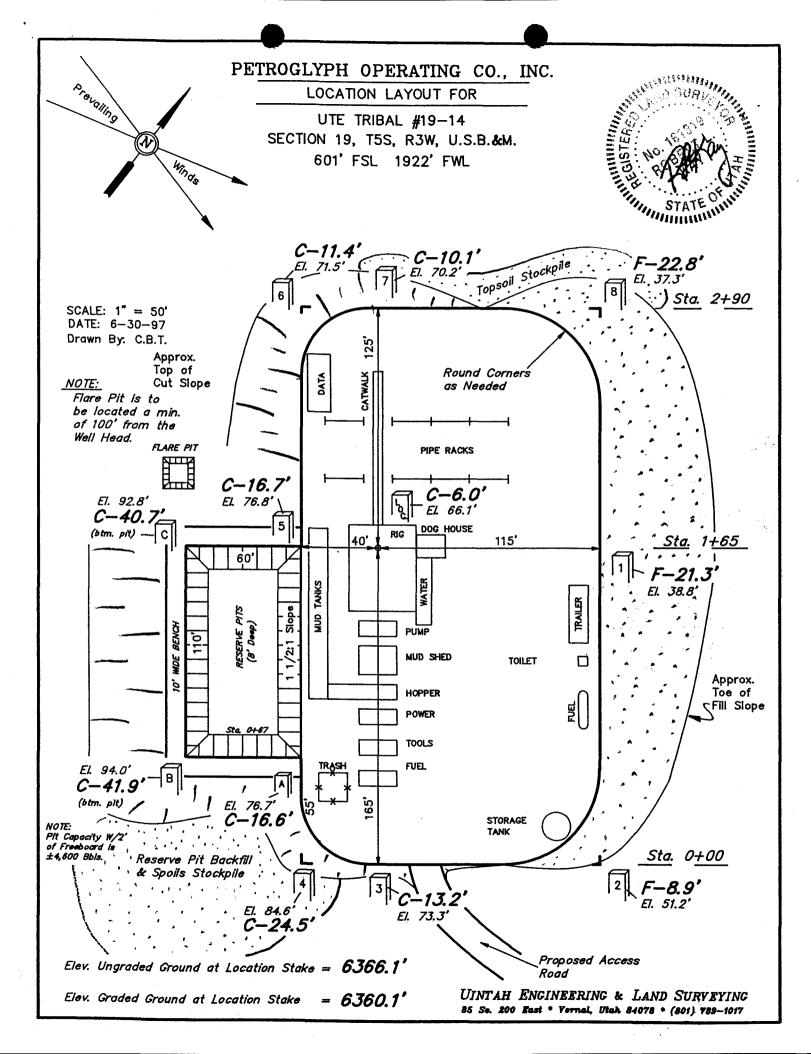
Certification:

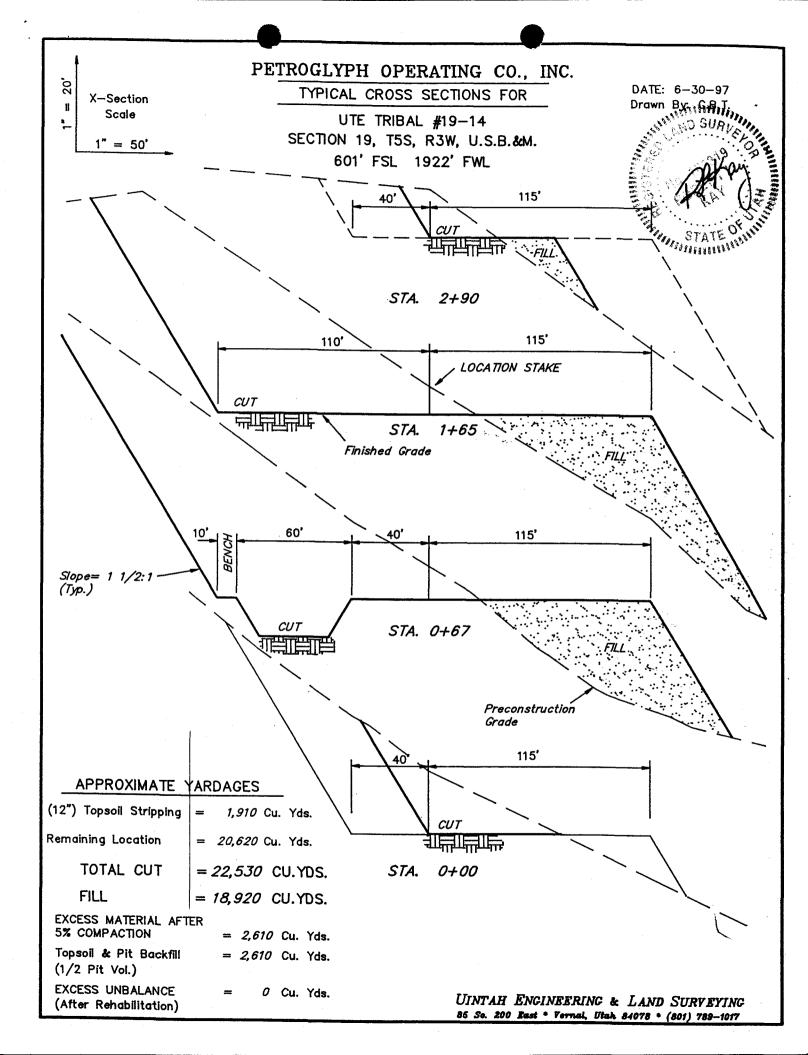
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

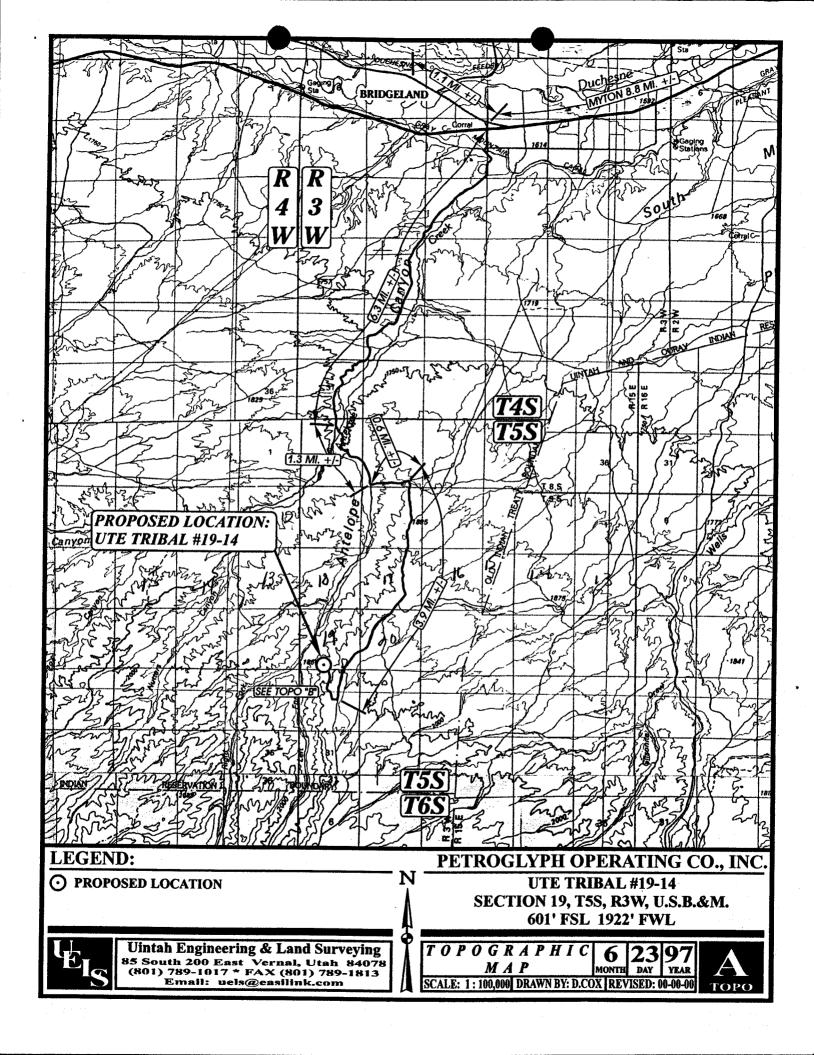
Jed Noth

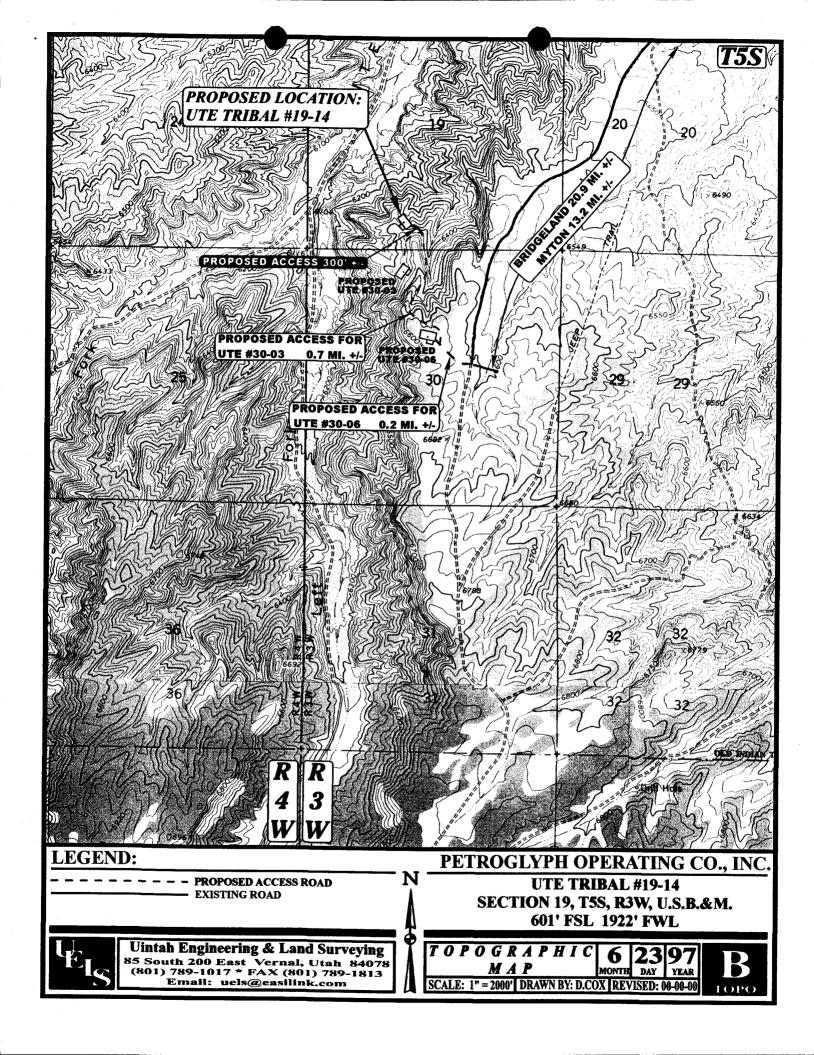
7-8-97

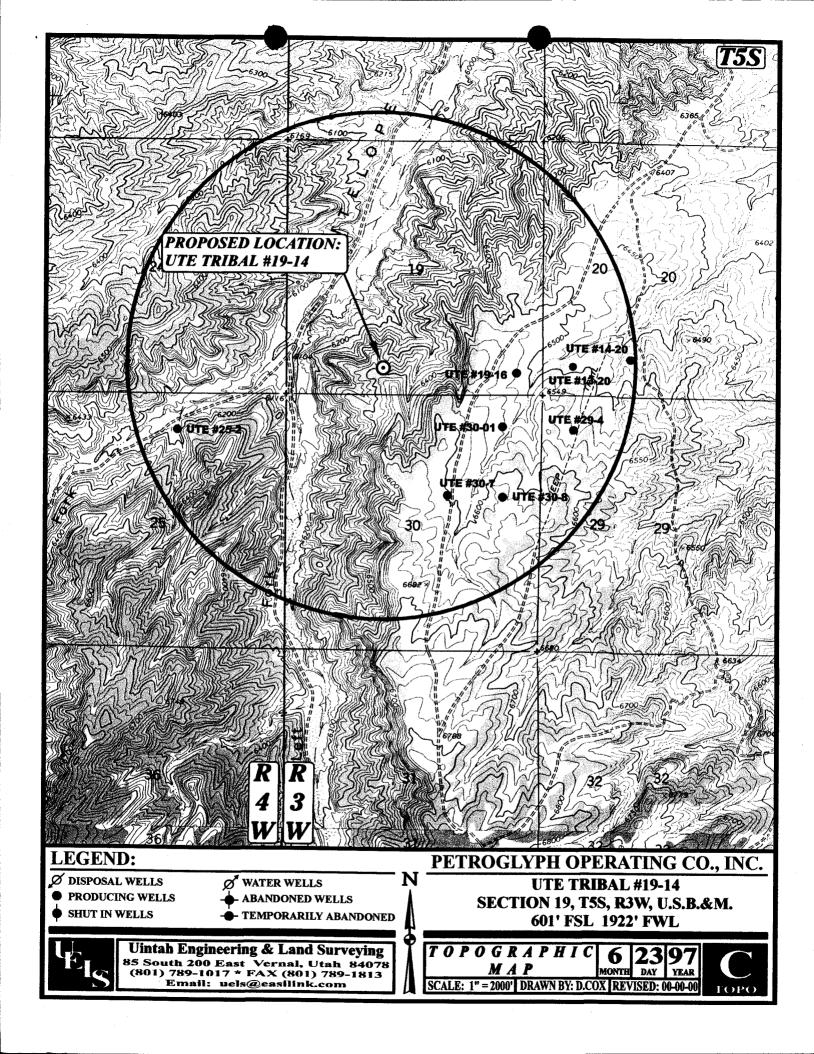
Date

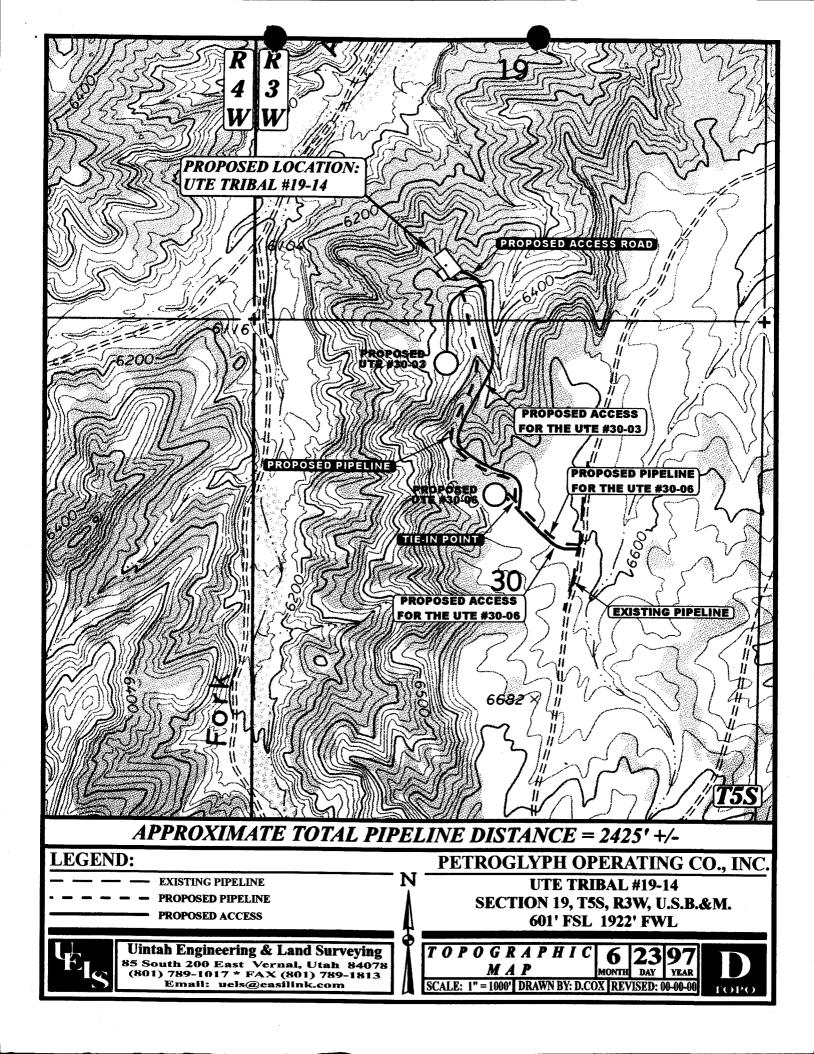












WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/14/97 API NO. ASSIGNED: 43-013-31966 WELL NAME: UTE TRIBAL 19-14 OPERATOR: PETROGLYPH OPERATING (N3800) PROPOSED LOCATION: INSPECT LOCATION BY: SESW 19 - T05S - R03W TECH REVIEW Initials SURFACE: 0601-FSL-1922-FWL Date BOTTOM: 0601-FSL-1922-FWL DUCHESNE COUNTY Engineering ANTELOPE CREEK FIELD (060) Geology LEASE TYPE: IND LEASE NUMBER: 14-20-H62-3514 Surface PROPOSED PRODUCING FORMATION: GRRV RECEIVED AND/OR REVIEWED: LOCATION AND SITING: _ 🗸 Plat R649-2-3. Unit: Bond: Federal [State] Fee] √ R649-3-2. General. (Number 4566 N Potash (Y/N) R649-3-3. Exception. M Oil shale (Y/N) ₩ater permit (Number 46 RDCC Review (Y/N) Drilling Unit. Board Cause no: (Date: Date: COMMENTS: STIPULATIONS:

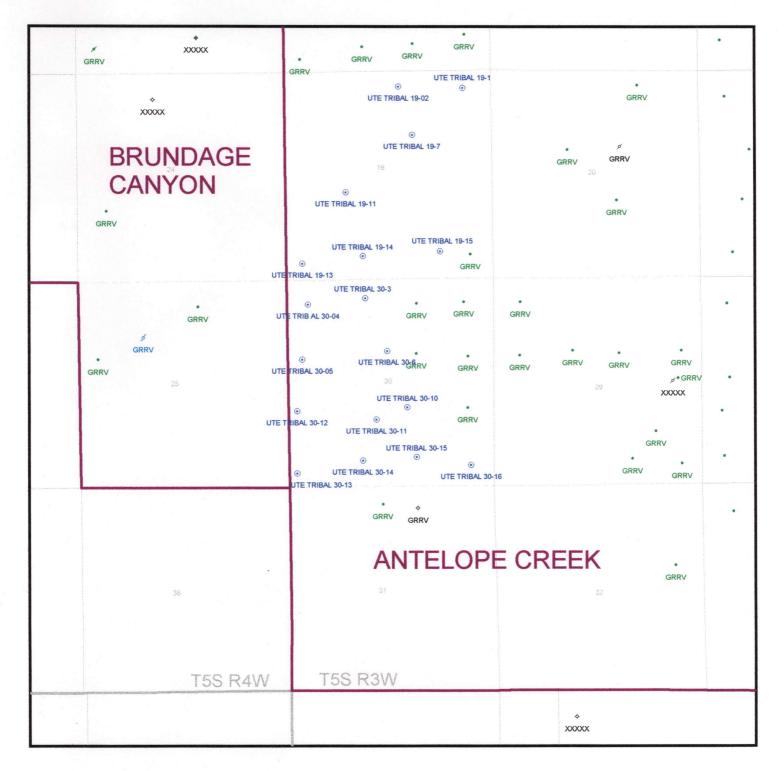


OPERATOR: PETROGLYPH OPERATING (N3800)

FIELD: ANTELOPE CREEK (060)

SEC. TWP, RNG: 19 & 30, T5S, R3W

COUNTY: DUCHESNE UAC: R649-2-3 & R649-3-3



Michael O. Leavitt Governor Ted Stewart Executive Director James W. Carter B01-359-3940 (Fax)
Division Director 801-538-7223 (TDD)

1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax)

October 29, 1997

Petroglyph Operating Company, Inc. P.O. Box 607 Roosevelt, Utah 84066

Ute Tribal 19-14 Well, 601' FSL, 1922' FWL, SE SW, Sec. 19, T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. API identification number assigned to this well is 43-013-31966.

Sincerely,

John R. Baza

Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator:	·	Petro	glyph	<u>Operat</u>	ing Co	mpany.	Inc.
Well Name & N	lumber: _	Ute I	'ribal	19-14		_,	
API Number:		43-01	3-3196	6			
Lease:		14-20	-H62-3	514			•
Location:	SE SW	Sec.	19	т.	5 S.	R.	3 W.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

OCT 28 1997

Form 3169-3 (July 1992)

SUBMIT IN T UNITED STATES DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

BUREAU OF LAND MANAGEMENT					14-20-H62-3514		
APPLI	CATION FOR P	ERMIT TO	DRIL	L OR DE	PEN		6. IF INDIAN, ALLOTTER OR TRIBE NAME
DRILL DEEPEN D						UTE INDIAN TRIBE 7. UNIT AGREEMENT NAME	
b. TYPE OF WELL	AS OTHER	DEEPEIN	81	NGLE	MULTIP Zone	LE .	8. FARM OR LEASE NAME, WELL NO.
			~			-	UTE TRIBAL 9. AN WELLING.
8. ADDRESS AND TELEPHONE NO.	OPERATING COM	IPANY, INC	<u> </u>				#19-14
P.O. BOX 60 4. LOCATION OF WELL (R. At surface	7. ROOSEVELT, eport location clearly and	UTAH 84	1066 th any 8	tate requireme	nts.*)		10. FIELD AND POOL, OR WILDCAT ANTELOPE CREEK
601 At proposed prod. zon	FSL & 1922' F	WL SE/S	V				SEC. 19, T5S, R3W
	AND DIRECTION FROM NEAR			i.•	<u> </u>		12. COUNTY OR PARISH 13. STATE DUCHESNE UTAH
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SOUTHWEST OF	MITON, U.		. OF ACRES IN	LEASE	17. NO. C	OF ACRES ASSIGNED
PROPERTY OR LEASE L (Also to nearest drig	INE, FT. 601'	<u>+</u>	64	10		TO TI	HIS WELL 80
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON THE	OSED LOCATIONS RILLING, COMPLETED,		1	OPOSED DEPTH		1	RY OR CABLE TOOLS
21. ELEVATIONS (Show who			-				22. APPROX. DATE WORK WILL START*
6360.1' GR.	ADED GROUND		V.				OCTOBER 1997
		PROPOSED CAS	ING ANI	CEMENTING	PROGRAM	A	
SIZE OF HOLE 12 1/4	GRADE, SIZE OF CASING 8 5/8	24.0#	T00T	250	EPTH		QUANTITY OF CEMENT
7 7/8	5 1/2	15.5#		5933.1			sx class "G" + 2% CaC1 4 #/sx celloflake.
		リルアー	29 1 GAS		G	SALT OF II LIGH' LCM '	O POZMIX + 2% GEL + 10 TO 400' ABOVE ALL ZON NTEREST (+ 10% EXCESS) I CEMENT (11 PPG+) + IO 200' ABOVE OIL SHAL RESH WATER INTERVALS (XCESS).
PETROCI.VPH O) PERATING COMF		_		لـــــ	TCMA T	rn.
	THE SUBJECT W	The second secon				IGNAL	RECEIVED
Bureau	vision of Oil of Indian Aff be, Fort Duch	airs, For	rt Di		Utah		OCT 0 9 1997
				,			
N ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If inent data on subsurface location	proposal is to deepen	, give data	on present prod	uctive zone	and proposed	new productive zone. If proposal is to drill or
SIGNED Z	with the state of		TI.EAG		PETRO		10 -8 -97
	APPROVAL			APPROVAL DAT			DVAL ATTACHED
Application approval does CONDITIONS OF APPROVA		plicant holds legal or o		ide to those rights stant Field I		lease which w	rould entitle the applicant to conduct operations thereon.

*See Instructions On Reverse Side

Mineral Resources

September 26, 1997

REPLY To Superintendent, Uintah & Ouray Agency

RECEIVED

Concurrence letter for Petroglyph Oper. Co. all in T5S,R3W

UteTribal 30-03 NENW, Sec 30 UteTribal 30-06 SENW, Sec. 30 UteTribal 19-11, NESW, Sec 19

UteTribal 19-02, NWNE,Sec. 19 Ute Tribal 19-13, SWSE, Sec. 19 UteTribal 19-01, NENE, Sec. 19

UteTribal 19-01, NENE, Sec. 19 Ute Tribal 19-07, SWNE, Sec. 19 UteTribal 19-15, SWSE, Sec. 19

Bureau of Land Management, Vernal District Office

ATTENTION: Minerals and Mining Division

ATTENTION: Mimerals and Mining Division

We recommend approval of the Application for Permit to Drill on the subject well

Based on available information received on <u>September 26, 1997</u>, we cleared the proposed location in the following area of environmental impact.

YES ____ NO _X _ Listed threatened or endangered species
YES ___ NO _X _ Critical wildlife habitat
YES ___ NO _X _ Archeological or cultural resources
YES ___ NO __ Air quality aspects (to be used only if project is in or adjacent to a Class I area.

REMARKS: The Ute Tribe Energy & Minerals Department is recommending the following criteria to be adhered during all phases of construction activities.

- 1. The Ute Tribe Energy & Minerals Department is to be notified 48 hours prior to construction as a Tribal Technician is to monitor construction.
- 2. 75 foot corridor rights of way shall be granted with the following:
 - A. Buried pipelines shall be buried minimum of 3 feet below soil surface
 - B. Access roads shall be limited to 32 feet wide.
 - C. Surface pipelines shall be limited to 13 feet wide.
 - D. Buried pipelines shall be limited to 15 feet wide, and construction will be monitored by Tribal Technician.
- 3. Pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, as safety requirements will allow.
- 4. Petroglyph Operating Company will assure the UteTribe that any/all contractors and any sub-contractors has acquired a Tribal Business License and have an access permit prior to construction.
- 5. All vehicular traffic, personnel movement, construction and restoration operations should confined to the area examined, as referenced in report and to the existing roadways and/or evaluated access routes
- 6. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- 7. The personnel from the Ute Tribe Energy and Minerals Department should be consulted should cultural remains from sub-surface deposits be exposed or identified during construction.
- 8. All mitigative stipulations contained in the Bureau of Indian Affairs site specific Environmental Analysis (EA) will be strictly adhered.
- 9. Upon completion of Application for Right-of-way the Ute Tribe Energy and Minerals Department will be notified by Petroglyph Operating Company, so that a Tribal Technician can verify Affidavit of Completions.

CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company

Well Name &	Number: <u>Ute Tribal 19-14</u>
API Number:	14-013-31966
Lease Number:	14-20-H62-3514
Location: <u>SE</u>	SW Sec. 19 T. 5S R. 3W
	NOTIFICATION REQUIREMENTS
Location Construction -	at least forty-eight (48) hours prior to construction of location and access roads.
Location Completion -	prior to moving on the drilling rig.
Spud Notice -	at least twenty-four (24) hours prior to spudding the well.
Casing String and - Cementing	at least twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and Related - Equipment Tests	at least twenty-four (24) hours prior to initiating pressure tests.
First Production - Notice	within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90)

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

days.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative by the operator to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. <u>Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered</u>

Report <u>ALL</u> water shows and water-bearing sands to Tim Ingwell of this office **prior to** setting the next casing string or requesting plugging orders. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

COA's Page 3 of 9 Well: Ute Tribal 19-14

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

If conductor pipe is set it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at \pm 375 ft. or by setting the surface casing at \pm 425 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to **TOP OF CEMENT** if the surface casing is set at \pm 425 ft. or it will be run to **SURFACE** if the surface casing is set at \pm 250 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

COA's Page 4 of 9 Well: Ute Tribal 19-14

6. <u>Notifications of Operations</u>

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

<u>Immediate Report</u>: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

COA's Page 6 of 9 Well: Ute Tribal 19-14

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

(801) 781-4410

Wayne Bankert Petroleum Engineer	(801) 789-4170
Ed Forsman Petroleum Engineer	(801) 789-7077
Jerry Kenczka Petroleum Engineer	(801) 789-1190

BLM FAX Machine

COA's Page 7 of 9 Well: Ute Tribal 19-14

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

SURFACE CONDITIONS OF APPROVAL

The Surface Use Conditions of Approval all come from the Bureau of Indian Affairs Concurrence Memorandum and Site Specific Environmental Analysis.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

Seventy-five (75) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 22 feet within a 30 foot allocation of the ROW, except as granted for sharp curves or intersections.

Surface pipelines shall be limited to 13 feet of the ROW. The pipeline will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the ROW. Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline ROW will not be used as an access road.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Buried pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Any additional buried pipelines shall be parallel to the outer side of the first buried pipeline and shall be constructed as close to the first pipeline as safety requirements allow.

After construction of the buried pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape and it shall be reseeded with desirable vegetation as recommended by the BIA. Between September 15 and November 1 of the year following pipeline construction all disturbed areas shall be reseeded with perennial vegetation according to BIA, or Ute Tribe specifications.

At the onsite of July 16 an alternate route for the flowlines for wells 30-03 and 19-14 was discussed. This alternative would connect them to well 19-11. If this route is chosen by the BIA, then Petroglyph will inform the BLM by an appropriate sundry notice so that our well files will have appropriate description of the flowline routes in them. If the route shown in the APD is followed that route is adequately described in the APD.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Before the site is abandoned, the company shall be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds shall be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits shall be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system shall be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by Petroglyph Operating Company so that a Tribal Technician can verify Affidavit of Completion's.

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: <u>PETROGLYPH OPERATING</u>
Well Name: UTE TRIBAL 19-14
Api No. <u>43-013-31966</u>
Section 19 Township 5S Range 3W County DUCHESNE
Drilling Contractor
Rig #
SPUDDED:
Date 4/28/98
Time
How DRY HOLE
Drilling will commence
Reported by GENE
Telephone #
Date: 4/28/98 Signed: JLT

(3/89)

ENTITY ACTION FORM - FORM 6

OPERATOR Petroglyph Operating Company, Inc. ADDRESS P.O. Box 607 Roosevelt, UT 84066

OPERATOR ACCT. NO. N3800

Phone No. (435) 722-2531

100000	ALIBORUE	T NEW	API NUMBER	WELL NAME			WELL	LOCATI	ON	SPUD	EFFECTIVE
ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	AFINONDER		QQ	SC	TP	RG	COUNTY	DATE	DATE
В	12353	>	43-013-31966	Ute Tribal 19-14	SESW	19	58	3W	Duchesne	4/28/98	
	OMMENTS:	<u></u>							•		
	CON	FIDENT	En	Lity added 5.5-98. Lec							
	CUIN	IULITI	1116	Ute Tribal 19-14 will tie into existing ta	nk batter	y at Ute	Tribal 1	19-11			
						<u> </u>		<u> </u>		<u> </u>	<u> </u>
WELL 2 C	OMMENTS:										
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WELL 4 C	OMMENTS:								By		
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										<u> </u>	
WELL 5	OMMENTS:										
ACTION	CODES (See	instructions on	back of form)						\wedge	. 1	
	A - Establish	new entity for r	new well (single well only	ब्राजी	CE	RITH	EIN		1 /00 110	1 Roll	
B - Add new well to existing entity (group of unit well)						TI A	<u> </u>	١W	Signature	Deanna Bell	
•			existing entity to anothe	r existing entity	MAV 6	<i>I.</i> 4000			Signature	· · · · · · · · · · · · · · · ·	•
		in well from one plain in commer	existing entity to a new		MAY_0	סככו ד	JJU	/	Operations Co	ordinator	4/30/98
	E - Other (ex	Piani in Continue	no section)			· · · · · · · · · · · · · · · · · · ·			Title		Date
NOTE: L	ise COMMENT	section to explain	why each Action Code wa	ns selected. DIV. OF	OIL, G	AS & N	MININ	3	Phone No. (4)	25) 722-2531	

LISHA C

Fam 7

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

AP 2. W (oll name and number.	-	Ho Tribal 10 14				
2. W			Ute Tribai 19-14	•			
	all Location: OO S	_	43-013-31966				
	Sh Foogran. AA O	ESW Section	19 Township 5S Range 3W	County <u>Duchesne</u>			
J. 11.			Operating Company, Inc.				
			_	•			
DA	dress:	P.O. Box 60		- (425) 722 2531			
		Roosevelt, U	JT 84066	Phone: <u>(435) 722-2531</u>			
4. Dr	illing Contractor:	Union Drillin	ng	-			
Ad	ldress:	P.O. Drawe	40	_			
		Ruckhannor	n, WV 26201	Рhопе: <u>(304) 472-4610</u>			
5. W	ater encountered (attach additiona	pages as needed):				
		PTH	VOLUME	QUALITY			
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	STATE O	FUTAH
DIVISION OF	OIL, GAS	AND MINING

		DIVISION OF OIL, GAS AND MINIMA	
R	EPORT OF	WATER ENCOUNTERE	D DURING DRIVENE LU VIC
Well name and num		Ute Tribal 19-14	MAY 1 9 1998
API number:		43-013-31966	DIV. OF OIL, GAS & MINI
Well Location: QQ S	SESW Section	County <u>Duchesne</u>	
Well Operator:	Petroglyph (Operating Company, Inc.	
Address:	P.O. Box 60	7	
	Roosevelt, l		Phone: <u>(435) 722-2531</u>
Drilling Contractor:	Union Drillir	ng	•
Address:	P.O. Drawe	r 40	-
	Buckhanno	n, WV 26201	Phone: (304) 472-4610
Water encountered	(attach additiona	l pages as needed):	
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f an analysis has be	en made of the w	ater encountered, please attach a	Lulas
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4.5/4
am 3160-4
(November 1983)
(formerly 9-330)
2

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE	
(See other instructi	006 OE

Form approved.
Budget Bureau No. 1004-0137
(Expires August 31, 1985)

DIV. OF OIL, GAS & MINING

		5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-3514						
	WELL C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6. IF INDIAN, ALOTTEE O					
.a. TYPE OF WELL:			7. UNIT AGREEMENT NAME 14-20-H62-4650					
b. TYPE OF COMPLE New Well			8. FARM OR LEASE NAM	В				
2. NAME OF OPERATO		H OPERATING C	OMPANY, INC.	CONF	DENTI	AL	9. WELL NO. Ute Tribal 19-14	
3. ADDRESS OF OPER	ATOR				RIOD		 FIELD AND POOL, OR Antelope Creek 	WILDCAT
1. LOCATION OF WELL At surface		, ROOSEVELT, U early and in accordance WL		E./\	30-99	7	11. SEC., T., R., M., OR BI SURVEY OR AREA	OCK AND
At top prod. interval r	reported below					/		Sec. 19-T5S-R3W
At total depth	5980' RTD			14. PERMIT NO. 43-013-31966	DATE ISSU	JED 10/29/97	12. County or Parish Duchesne	13. State Utah
5. DATE SPUDDED	4/28/98	16. DATE T.D. REACH		17. DATE COMPLETED (Red		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6370' KB	19. ELEV. CASINGHEAD 6360' GGL
20. TOTAL DEPTH, MD	& TVD 5980' TD	21. PLUG BACK T.D., 5911' PBTD		22. IF MULTIPLE COMPL., HOW	MANY*	23. INTERVALS DRILLLED BY	ROTARY TOOLS	CABLE TOOLS
24. PRODUCING INTE	• •	OMPLETION - TOP, BC 5.1, D3.4, E1, E2.2	TTOM, NAME (MD A	ND IVD)	-[/]	ΓΙΔΙ	25 WAS DIRECTIONAL S No	URVEY MADE
26. TYPE ELECTRIC A	ND OTHER LOGS R	UN					27. WAS WELL CORED No	
28.			CAS	SING RECORD (Report all stri				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTIN 160 sxs Class H w/ 2% Ca	G RECORE		AMOUNT	POLLED
8-5/8" 5-1/2"	24.0 15.5	261' 5955'	12-1/ 4" 7-7/8"	235 sxs Highfill, 410 sxs Th		Compliant nate		
						30.	TUBING R	RCORD
29. SIZE	TOP	BOTTOM (MD)	NER RECORD SACKS CEMENT*	SCREEN (MD)		SIZE	DEPTH SET (MD)	PACKER SET (MD)
312.15	101	DOTTOM (MID)	UNCKO CIMIANI	Jordan (III)		2-7/8"	5618'	
		Ĺ				D STATE TO A STATE OF	B, CEMENT SQUEEZE, ET	
31. PERFORATION RE	CORD (Interval, size	•		32. DEPTH INTERVAL (MD)	ACI		ND KIND OF MATERIAL U	
E2.2 5	476-78' (8 holes)	_		5433-39' & 5476-78'	2000 gals Cr	osslink, 8510 gals Delta i	rac, 19000# 20/40 prop, 27800#	16/30 prop
E1 543	33-39' (24 holes)			5045-50'	1800 gais 0	Crosslink, 5752 gals De	olta Frac, 12500# 20/40 prop,1	9000# 16/30 prop
	045-50' (20 holes)			4666-72'	2000 gais (Crosslink, 7189 gals De	etta Frac,16100# 20/40 prop,2	3300# 16/30 prop
C6.1 4	666-72' (24 holes)				 			
33.	<u> </u>			PRODUCTION				
DATE FIRST PRODUC	TION 7/30/98	PRODUCTION METHO 21/2" x 1-3/4" x 16'		pumping - size and type of pum	p) .		WELL STATUS (Producing producing	5
DATE OF TEST 8/4/98	HOURS TESTED 24	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL. 73	GAS - MC	F. 40	WATER - BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS	S. CASING PRESSU 800	JRE CALCULATED 24 HR. RATE	OIL - BBL	GAS - MCF.	WATER -	BBL.	OIL GRAVITY - API (COR	R.)
34. DISPOSITION OF C	BAS (Sold, used for fue Sold, used for fue	· ·				TEST WITNESSED	BY Dave Schreiner	
35. LIST OF ATTACH								·
36. I hereby certify that Signed		ched information is comp	olete and correct as dete	ermined from all available recor	ds		Date	8/24/98
		* (See In	structions and §	Spaces for Additional D	ata on R		FIVE	
		, makes it a crime for any natter within its jurisdiction		willfully to make to any departm	ent or agenc		any today tictitions or fraudu	ent statements

	UE VERT.	DEPTH	•					
GEOLOGIC MARKERS	TOP MEAS. DEPTH TRUE VERT.			·	4		<u> </u>	
38. GEO	NAME							
coveries):	DESCRIPTION, CONTENTS, ETC.							
rval tested, cushion used, tim	BOTTOM		CONFIDENTIAL					
luding depth inter	TOP		2850 4332 4474 4848 5410 5836					
drill-stem, tests, inc	FORMATION	Ute Tribal 19-14	B Marker X Marker Douglas Creek B Limestone Castle Peak Basal Carbonate					

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED

Budget Bureau No. 1004-0135

Expires March 31, 1993

BUREAU OF	Lease Designation and Serial No. 14-20-H62-3514	
SUNDRY NOTICES Do not use this form for proposals to drill or to deeper Use "APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name Ute Indian Tribe	
SUBMI	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gas Well Well Other		14-20-H62-4650 8. Well Name and No. Ute Tribal 19-14
Name of Operator Petroglyph Operating Company, Inc. Address and Telephone No.		9. API Well No. 43-013-31966
•	35) 722-2531	10. Field and Pool, or Exploratory Area Antelope Creek
601' FSL 1922' FWL SESW Sec. 19-T5S-R3W		11. County or Parish, State Duchesne County, UT
12. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, R	EPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
Final Abandonment Notice	Conversion to Injection Dispose Water	
•		(Note: Report results of multiple completion on Well

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Petroglyph Operating Company, Inc. has submitted and application for aUIC permit to convert the Ute Tribal 19-14 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area located in Duchesne County, Utah.

> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

RECEIVED

MAY 0 5 2000

DIVISION OF

110		OIL, GAS AND MINING
14. I hereby certify that his foregoing is true and corner Signed	Title Operations Coordinator	Date 5/2/00
(This space for Federal or State official use) Approved by	Title	Date
Conditions of Approval, if any:		
Title 18 U.S.C. Section 1001, makes it a crime for any person kn	owingly and willfully to make to any department or agency of	the United States any faise, fictitious or inaudulent statements

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OU. GAS AND MINING

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-(Ю	A Q

· I	DIVISION OF OIL, GAS AND	MINING	5. LEASE DESIGNATION AND SERIAL NUMBER:
	THE STATE OF SIL, ONG AIRE	WILLIAM	1420H624650
SHNDRY	NOTICES AND REPO	DTC ON WELL C	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
			Ute Indian Tribe
OF HOMEON HOME	ew wells, significantly deepen existing wells beto derals. Use APPLICATION FOR PERMIT TO D	ow current bottom-hole depth, reenter plugged wells, or RILL form for such proposals.	Ute Tribal 19-06
1. TYPE OF WELL OIL WELL			8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:			See Below
	n Operating Compa		9. API NUMBER:
3. ADDRESS OF OPERATOR:	n Operating Compa	PHONE NUMBER:	See Below 10. FIELD AND POOL, OR WILDCAT:
P.O Box 607 crry	Roosevelt STATE UT		Antelope Creek
	tiple/See Below		COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANG	GE, MERIDIAN:		STATE: UT
			UTAH
11. CHECK APPR	ROPRIATE BOXES TO INDIC	CATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR .	■ NEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATION	Load .	X oner Facility
<u> </u>	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATI	Glanna a
		all pertinent details including dates, depths, vo	lumes, etc.
Well Name Al	PI# S/	<u>T/R </u>	tatus <u>Entity#</u>
	0133218200S1 19,	/5S/3W 0i1 P	OW 12353
Ute 19-12 43	0133179500S1 19,	/05S/03W 0i1 P	OW 12353
Ute 19-14 43	0133196600S1 19,	/05S/03W 0i1 P	OW 12353
	moved to the Ute	Tribal 19-06 Tank	
Ute 19-06		Oi1 P	OW 12210
NAME (PLEASE PRINT) Callie	Peatross	mue Product	ion Clark
WHE LIEUSE LIGHT OUT TI	0 1 - 11	TITLE PLOQUET.	TOU CIEIV
SIGNATURE	Yeathor's	DATE 04-25-0	3
(This space for State use only)			PECEUM-

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APR 2 8 2003

JUL-07-2003 MON 09:40 AM OIL, GAS & MINING

FAX NO. 5 359 3940

P. 02/03

FORM 6

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

			ENTITY ACTIO	N FORM				
Operator: Address:	P.O. P	aluph 607		Opei	rator Ac	count Nu	mber: _	n 3800
	state U	sevelt	zip 84066		P	hone Nu	mber: _	<u>435-722-25</u> 3
Well 1	umber	Well	Name	QQ	Sec	Twp	Rng	County
4301331					NWSW 19 55		3W	Duchesne
	Code	Current Entity Number	New Entity Number	Spud Date			tity Assignment Effective Date	
(12353	12210	4/10	11998	7	ma	rch-2003
Comme	nts: No.4		6 TB.					1/9/03

API Number	Well	Name	QQ	Sec	TWP	Rng	County
43013319660051	1ste Tribal	1.19-14	BESW	19	55	3W	Duchosne
Action Code	Current Entity Number	New Entity Number	5	pud Da	to		ity Assignment lifective Date
C	12353	12210	14/	28/19	98	max	ch-2003
Comments:	on 19-06	TR.		-		7	1/9/3

API Number	Well I	łame	QQ	Sec	Twp	Rng	County
4301331823005)	Utc Tribal	30-02	NWNE	36	55	3W	Duchesne
Action Code	Current Entity . Number	New Entity Number	S	pud Da	te		ity Assignment Effective Date
C	69410	69397	3	114/19	97	May	rh-2003
Comments:							7/9/03/

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

RECEIVED

JUL 0 7 2003

DIV. OF OIL, GAS & MINING

Nagra (Please Bring)

Signature

Production Assistant 7-7-03

(15/2000)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

999 18TH STREET - SUITE 300 DENVER, CO 80202-2466 Phone 800-227-8917 http://www.epa.gov/region08

AUTHORIZATION FOR ADDITIONAL WELL

UIC Area Permit No: UT20736-00000

The Antelope Creek Waterflood Final UIC Area Permit No. UT20736-00000, effective July 12, 1994, authorizes injection for the purpose of enhanced oil recovery into multiple lenticular sand units which are distributed throughout the lower portion of the Green River Formation. On May 15, 2000, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

Well Name:

EPA Well ID Number:

Location:

Ute Tribal 19-14

UT20736-04554

601 ft FSL & 1922 ft FWL SE SW Sec. 16 - T5S - R3W Duchesne County, Utah.

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20736-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20736-00000, as modified and as specified in the Well Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date:

AUG 2 4 2005

MStephen S. Tuber

*Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

^{*} The person holding this title is referred to as the Director throughout the Permit and Authorization

WELL-SPECIFIC REQUIREMENTS

Well Name: <u>Ute Tribal 19-14</u> EPA Well ID Number: <u>UT20736-04554</u>

Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director:

- 1. a successful Part I (Internal) Mechanical Integrity test (MIT);
- 2. pore pressure calculation of the proposed injection zone; and
- 3. completed Well Rework Record EPA Form No. 7520-12 and schematic diagram.

Approved Injection Zone: Injection is approved between the base of the Green River A Lime Marker, at approximately 3827 ft, to the top of the Basal Carbonate, at approximately 5836 ft.

<u>Maximum Allowable Injection Pressure (MAIP)</u>: The initial MAIP is <u>1635 psig</u>, based on the following calculation:

```
MAIP = [FG - (0.433)(SG)] * D, where

FG = 0.80 \text{ psi/ft} SG = 1.002 D = \underline{4466 \text{ ft}} (top perforation depth KB)

MAIP = \underline{1635 \text{ psi}}
```

UIC Area Permit No. UT20736-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a step rate test that demonstrates the formation breakdown pressure will not be exceeded.

Well Construction and Corrective Action: No Corrective Action is required. Based on review of well construction and cementing Records, including a CBL, well construction is considered adequate to prevent fluid movement out of the injection zone and into USDWs.

Tubing 2-3/8" or similar size injection tubing is approved; the packer shall be set at and Packer: a depth no more than 100 ft above the top perforation.

<u>Corrective Action for Wells in Area of Review:</u> <u>No Corrective Action is required.</u> No wells that penetrate the confining zone are within or proximate to a 1/4 mile radius around the Ute Tribal No. 19-14.

<u>Demonstration of Mechanical Integrity</u>: A successful demonstration of Part I (Internal) Mechanical Integrity using a standard Casing-Tubing pressure test is required prior to injection and at least once every five years thereafter. EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR 146.8 (a)(2). Therefore, further demonstration of Part II (External) Mechanical Integrity is not required at this time.

Demonstration of Financial Responsibility: The applicant has demonstrated financial responsibility in the amount of \$15,000 via a Surety Bond that has been reviewed and approved by the EPA.

Plugging and Abandonment: The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation at 4466 ft with a minimum 20 ft cement plug on top of the CIBP.
- PLUG NO. 2: Set a minimum 200 ft cement plug inside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale, between approximately 2600 ft to 2800 ft.
- PLUG NO. 3: Set a minimum 50 ft cement plug on the backside of the 5-1/2" casing, across the surface casing shoe at 261 ft (unless pre-existing backside cement precludes cement-squeezing this interval.)
- PLUG NO. 4: Set a cement plug inside of the 5-1/2" casing, from at least 230 ft to 400 ft.
- PLUG NO. 5: Set a cement plug on the backside of the 5-1/2" casing, from surface to a depth of at least 50 ft.
- PLUG NO. 6: Set a cement plug inside of the 5-1/2" casing from surface to a depth of at least 50 ft.

Cut off surface and 5-1/2" casing at least 4 ft below ground level and set P&A marker; submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

Reporting of Noncompliance:

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) <u>Compliance Schedules</u>. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the

operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting:

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at 303.293.1788 if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting:

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the National Response Center (NRC) 1.800.424.8802 or 202.267.2675, or through the NRC website at http://www.nrc.uscg.mil/index.htm.

Other Noncompliance:

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

Other Information:

Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

WELL-SPECIFIC CONSIDERATIONS

Well Name: Ute Tribal 19-14 EPA Well ID Number: UT20736-00000

Underground Sources of Drinking Water (USDWs): USDWs in the Antelope Creek Waterflood area generally may occur within the Uinta Formation, which extends from the surface to the top of the Green River Formation at approximately 1680 ft. According to "Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92," the base of moderately saline ground water is found at approximately 210 ft below ground surface at this well location. Based on analysis of the submitted cement bond log (CBL) the top of casing cement in this well is at approximately 200 ft below ground surface (KB) and the base of surface casing is at 261 ft (GL).

Confining Zone: The Confining Zone at this location is approximately 216 ft of interbedded limestone and shale between the depths of 3611 ft to 3827 ft (KB) which directly overlies the Injection Zone, based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log. Additional impermeable lacustrine shale beds above the Confining Zone provide for further protection for any overlying USDW.

Injection Zone: The Injection Zone at this well location is an approximately 2009 ft section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of the Confining Zone at 3827 ft (KB) to the top of the Basal Carbonate Formation at 5836 ft (KB), based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log.

Well Construction: The CBL shows approximately 18 ft (continuous) 80% or greater bond within the confining zone from approximately 3690 ft to 3708 ft, with 70% and greater bond from approximately 3400 ft to 4100 ft with occasional intervals of 80% and greater bond.

Surface

8-5/8" casing is set at 261 ft (KB) in a 12-1/4" hole, using 160 sacks cement

casing:

casing:

circulated to the surface.

Longstring

5-1/2" casing is set at 5955 ft (KB) in a 7-7/8" 5980 ft Total Depth hole with a plugged back total depth (PBTD) of 5911 ft, cemented with 645 sacks cement

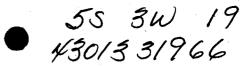
(circulated 20 bbl cement to pit)

Top of Cement (TOC): 200 ft (KB) CBL.

Perforations: top perforation: 4466 ft

Bottom perforation: 5478 ft

Wells in Area of Review (AOR): No wells that penetrate the confining zone are within or proximate to a 1/4 mile radius around the Ute Tribal No. 19-14.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

AUG 2 4 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

RECEIVED

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

DIV. OF OIL, GAS & MINING

RE:

Additional Well to Antelope Creek Area Permit

UIC Permit No. <u>UT20736-00000</u>

Well ID: UT20736-04554

Ute Tribal No. 19-14, Duchesne County, Utah

Dear Mr. Smith:

The Petroglyph Operating Company, Inc. (Petroglyph) request to convert the former Green River Formation oil well Ute Tribal No. 19-14 to an enhanced recovery injection well in the Antelope Creek Waterflood project is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization For Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Antelope Creek Waterflood UIC Area Permit No. UT20736-00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, the Ute Tribal No. 19-14 is subject to all terms and conditions of the UIC Area Permit UT20736-00000 as modified.

Please be aware that Petroglyph does not have authorization to begin injection operations into the well until all <u>Prior to Commencing Injection</u> requirements have been submitted and evaluated by the EPA, and Petroglyph has received written authorization from the Director to begin injection.

Prior to receiving authorization to inject, the EPA requires that Petroglyph submit for review and approval the following: (1) the results of a **Part I (Internal) mechanical integrity test** (MIT), (2) a **pore pressure** calculation of the injection interval, and (3) a completed **EPA** Form No. 7520-12 Well Rework Record.

The initial Maximum Allowable Injection Pressure (MAIP) for the Ute Tribal No. 19-14 was determined to be <u>1635 psig.</u> UIC Area Permit UT20736-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a step rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Mr. Dan Jackson at (303) 312-6155 or 1.800.227.8917 (Ext. 6155). Please submit the required data to <u>ATTENTION: DAN JACKSON</u>, at the letterhead address, citing <u>MAIL CODE: 8P-W-GW</u> very prominently.

Sincerely,

for Stephen S. Tuber

Assistant Regional Administrator

Det 12 Thron

Office of Partnerships and Regulatory Assistance

encl: Authorization For Conversion of An Additional Well EPA Form No. 7520-12 (Well Rework Record)

cc: without enclosures

Maxine Natchees, Chairperson Uintah & Ouray Business Committee Ute Indian Tribe P.O. Box 190 Fort Duchesne, UT 84026

Chester Mills, Superintendent BIA - Uintah & Ouray Indian Agency P.O. Box 130 Fort Duchesne, UT 84026

cc: with enclosures;

Elaine Willie Environmental Coordinator Ute Indian Tribe P.O. Box 460 Fort Duchesne, UT 84026 Gil Hunt Technical Services Manager Utah Division of Oil, Gas, and Mining 1594 West North Temple - Suite 1220 Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE BLM - Vernal District 170 South 500 East Vernal, UT 84078

STATE OF UTAH	FORM 9
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3514
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribal
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME: 14-H62-4650
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: Ute Tribal 19-14
2. NAME OF OPERATOR: PETROGLYPH	9. API NUMBER: 43-013-319 <i>66</i>
3. ADDRESS OF OPERATOR: BOX 607	10. FIELD AND POOL, OR WILDCAT: Antelope Creek
4. LOCATION OF WELL FOOTAGES AT SURFACE: 601'FSL 1922'FWL	COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 5S 3W	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	· ·
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
12/16/2011 CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:	
12/29/2011 COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	OTHER:
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volume	nes, etc.
12/16/2010 Petroglyph operating move in work over rig to Preform Reperf and acid job to e	nhance well. Perf's as follows:
Reshot Perf's Acid Jobs: 4,624'- 27' @ 4 spf @ 120* phased	
4,655'- 58' @ 4 spf @ 120' phased 4624'-78 w/ 1000 gal 15% Hcl	
4,663'- 66' @ 4 spf @ 120* phased 4880'- 4918' w/ 1000 gal 15% Hcl	
4,672'- 78' @ 4 spf @ 120* phased 5042'-72 w/ 1000 gal 15% Hcl	
4,880'- 84' @ 4 spf @ 120* phased 5422'-79' w/ 1000 gal 15% Hcl	
4,912'- 18' @ 4 spf @ 120* phased	
5,042'- 45' @ 4 spf @ 120* phased Acid containing: 4000 gal 15% Hcl, 2	
	th, 21 gal Fe 100 Iron
5,422'- 33' @ 4 spf @ 120' phased 35 gai Fe 200 iron,	7 gal MA844WSurfactant
5,439'- 48' @ 4 spf @ 120* phased	
5,450'- 54' @ 4 spf @ 120* phased	
5,475'- 79' @ 4 spf @ 120* phased	
Run Prod Tbg, Swab Back Acid job Till Solid 6PH. Place Well Back to Prod	
NAME (PLEASE PRINT) Jason Bywater Distrist Supervis	ior
SIGNATURE DATE // LIFE	

(This space for State use only)

RECEIVED JAN 24, 2011

1

Petroglyph Operating Co. Inc.

Ute Tribal 19-14 API No. 43-013-31966 **Duchesne County, Utah** December 22, 2010

15% HCI Treatment

8 bpm via Casing & Tubing



Prepared For: Leon Roush

Office: Fax:

Cell:

435-823-6195

E-Mail:

Prepared For:

Office:

Fax:

Cell: E-Mail:

Reviewed By:

Office:

#N/A E-Fax: #N/A

#N/A Cell:

E-Mail: #N/A District Manager:

Brett Truss

Office:

453-781-1953

E-Fax:

435-781-1945

Celi:

435-790-4090

E-Mail:

btruss@fractech.net

Sales Representative:

Vernon J. Fitchette

Office:

E-Fax:

435-781-1953 435-781-1945

Cell:

435-790-3109

E-Mail:

vfitchette@fractech.net

Prepared By:

Vernon J. Fitchette

Office:

435-781-1953 435-781-1945

E-Fax: Celi:

E-Mail:

435-790-3109

vfitchette@fractech.net

Frac Tech Services, LTD 4395 E 4700 South

Vernal, UT 84079

Frac Tech Services, Ltd

Field Receipt No: 11-0000618

Revision: 1

Date: 12/22/2010

Page: 1 of 1

Stage: 1

Sales: Vernon J. Fitchette-70-405

AFE 0

Customer Name:

Petroglyph Operating Co. Inc.

Billing Address:

PO Box 7608

Boise, ID 83707

Lease Name: Job Description: Ute Tribal 19-14 15% HCI Treatment

Job Description
Job Depth:

5,182

to

5,818

API Number:

43-013-31966

S19-T5S-R3W

Legal Description: County / State

Duchesne County, Utah

AUXILIARY CHARGES

Item	Quanity	Description	Rate	Unit	Gross	Discount	Net
DA003 / DA003	1.00	AUX - Acid Monitoring Van	\$ 1,000.00	per stg	\$ 1,000.00	75.00%	\$ 250.00
				Subtotal	\$ 1,000.00		\$ 250.00
MISC CHARG	ES						
HEM01 / HEM01	120.00	MISC - Mileage Heavy Vehicle	\$ 7.25	unit/mile	\$ 870.00	75.00%	\$ 217.50
LEM01/LEM01	60.00	MISC - Mileage Light Vehicle	\$ 4.40	unit/mile	\$ 264.00	75.00%	\$ 66.00
FC24	1.00	MISC - Fuel Charge Acid Jobs	\$ 218.75	per hr	\$ 218.75	0.00%	\$ 218.75
SSI03	1.00	MISC - Field Performance Incentive (Non-Frac)	\$ 150.00	per day	\$ 150.00	0.00%	\$ 150.00
				Subtotal	\$ 1,352.75		\$ 652.25
PUMP & BLEN	DER CHA	RGES	 				
AFP01	1.00	P&B - Acid Pump 0-2500 psi, Non Energized	\$ 3,700.00	ea/1st 2 hrs	\$ 3,700.00	75.00%	\$ 925.00
AT002	0.00	P&B - Acid Transport > 2000 gal	\$ 150.00	per hr	\$ -	75.00%	\$ -
				Subtotal	\$ 3,700.00		\$ 925.00
MATERIAL CH	ARGES						
A3002 / AA016	3500.00	CHEM - 10.1% - 15% HCL	\$ 1.47	per gal	\$ 5,145.00	0.00%	\$ 5,145.00
CI-200 / M2036	28.00	CHEM - CI-200 (Corrosion Inhibitor)	\$ 72.80	per gal	\$ 2,038.40	0.00%	\$ 2,038.40
M2012 / M2011	21.00	CHEM - FE 100L (Iron Chelator)	\$ 53.32	per gal	\$ 1,119.72	0.00%	\$ 1,119.72
FE-200L / M2012	35.00	CHEM - FE 200 (Iron Chelator)	\$ 30.24	per lb	\$ 1,058.40	0.00%	\$ 1,058.40
M2019 / M2024	7.00	CHEM - MA-844W (Microemulsion Surfactant, CESI)	\$ 158.00	per gal	\$ 1,106.00	75.00%	\$ 276.50
MSA01 / M2154	0.00	CHEM - Mutual Solvent (MSA-1)	\$ 87.12	per gal	\$ - 1	75.00%	\$ -
Misc Chem	50.00	Sodium Bi-Carbonate	\$ 0.43	per lb	\$ 21.50	75.00%	\$ 5.38
				Subtotal	\$ 10,467.52		\$ 9,643.40
				Total	\$ 16,520.27		\$ 11,470.65

Authorization to Begin Service

I hereby authorize the work to commence per the service instructions and in accordance with the terms and conditions printed on the backside of this form and I represent that I have the authority to accept and sign this Field Receipt and Order on behalf of the Customer.

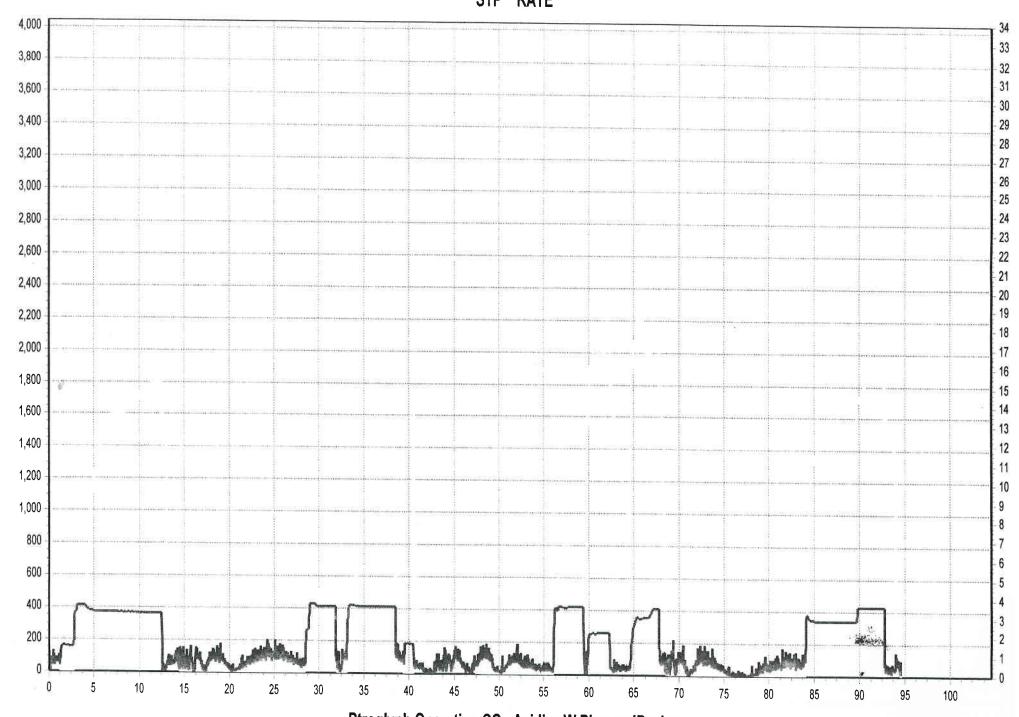
Signature

Completed Services

I certify that the materials and services listed above were satisfactorily received and all services were performed in a good and workman like manner.

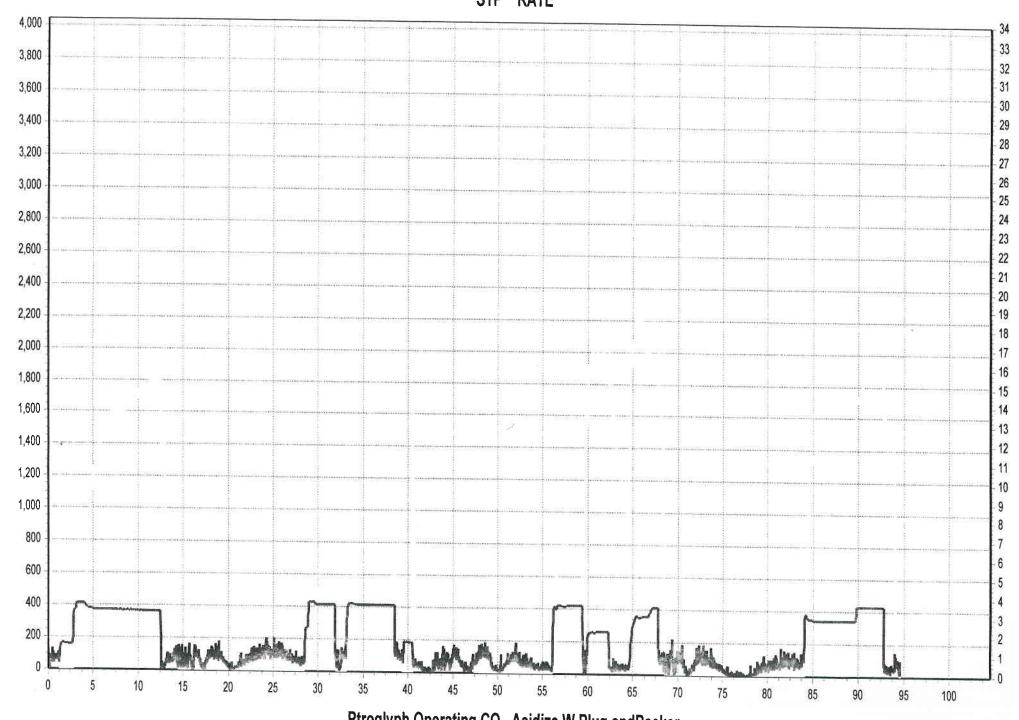
Signature	
•	

STP RATE



Ptroglyph Operating CO. Acidize W Plug and Packer

STP RATE



Ptroglyph Operating CO. Acidize W Plug and Packer

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

·I	DIVISION OF OIL, GAS AND	MINING				ASE DESIGNATION AND SERIAL NUMBER: 20-H62-3514		
SUNDRY NOTICES AND REPORTS ON WELLS 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe								
Do not use this form for proposals to drill n drill horizontal la	reenter plugged wells, or to		IT of CA AGREEMENT NAME; 20-H62-4650					
1. TYPE OF WELL OIL WELL GAS WELL OTHER						ELL NAME and NUMBER: Tribal 19-14		
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.						NUMBER:)1331966		
3. ADDRESS OF OPERATOR: P.O. Box 607	Roosevelt STATE UT	_{ZIP} 84066		PHONE NUMBER: (435) 722-2531	10. FI	ELD AND POOL, OR WILDCAT:		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 601' F		- 		Acceptance acceptance and a second	COUN	TY: Duchesne		
QTR/QTR, SECTION, TOWNSHIP, RAN-	GE, MERIDIAN: SESW 19 5S	3W			STATE	E: UTAH		
11. CHECK APPE	ROPRIATE BOXES TO INDIC	CATE NATU	RE C	F NOTICE, REPO	RT, C	R OTHER DATA		
TYPE OF SUBMISSION				PE OF ACTION				
NOTICE OF INTENT	ACIDIZE	DEEP			V	REPERFORATE CURRENT FORMATION		
(Submit in Duplicate)	ALTER CASING	☐ FRAC	TURE T	REAT		SIDETRACK TO REPAIR WELL		
Approximate date work will start:	CASING REPAIR			RUCTION	닐	TEMPORARILY ABANDON		
12/16/2010	CHANGE TO PREVIOUS PLANS		ATOR C			TUBING REPAIR		
CHROCOUGHT DEPOST	CHANGE TUBING			BANDON	닐	VENT OR FLARE		
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG			닏	WATER DISPOSAL		
Date of work completion:	CHANGE WELL STATUS	=		(START/RESUME)	닏	WATER SHUT-OFF		
	COMMINGLE PRODUCING FORMATIC			N OF WELL SITE	Ш	OTHER:		
***************************************	CONVERT WELL TYPE	RECO	MPLETE	E - DIFFERENT FORMATION				
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Petroglyph Operating plans on moving in work over rig to perform re-perf and acid job to enhance well. Perfs as follows:								
Reshot Perf's		Acid Jobs:			1.	COPY SENT TO OPERATOR		
4,624'-27' @ 4 spf @ 120*		4.0043.701		20 1 450/ 11				
4,655'-58' @ 4 spf @ 120* 4,663'-66' @ 4 spf @ 120*				00 gal 15% Hcl 1000 gal 15% Hcl		Date: 11/22/2011		
4,672'-78' @ 4 spf @ 120*				00 gal 15% Hcl	,	Initiale: ICS		
4,880'-84' @ 4 spf @ 120*	phased			00 gal 15% Hcl	,			
4,912'-18' @ 4 spf @ 120*				4000 1450/11				
5,042'-45' @ 4 spf @ 120* 5,050'-56' @ 4 spf @ 120*						gal exylene, 28 gal Cl 200		
5,068'-72' @ 4 spf @ 120*		7 gal MA84		!1 gal FE-100 Iron, : surfactant	oo ya	ii re 200 iion,		
5,422'-33' @ 4 spf @ 120*		7 900 1111 10		yarracotarre.				
5,439'-48' @ 4 spf @ 120*	phased							
5,450'-54' @ 4 spf @ 120*								
5,475'-79' @ 4 spf @ 120*	pnased back acid job till solid PH of 6	Dut wall to	num	n	:			
Train production tog, swap	Dack acid job till solid F11 01 0	. Fut wento	pun	۲.	************			
NAME (PLEASE PRINT) Leon Rous	ih		TITLE	Rig Supervisor				
SIGNATURE	Roach	والمراجعة	DATE	10/21/2011		RECEIVED		
	A wated by the					KECEIVED		
This space for State use only)	Accepted by the Utah Division of					OCT 2 1 2011		
	Oil Con and Mining	r						
	Oil, Gas and Mining			•	OIV	OF OIL, GAS & MINING		
5/2000)	For Record University	nstructions on Reve	rse Side) _				
	For Record Only	ed 12/2	9/2	010				